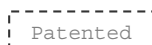
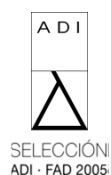
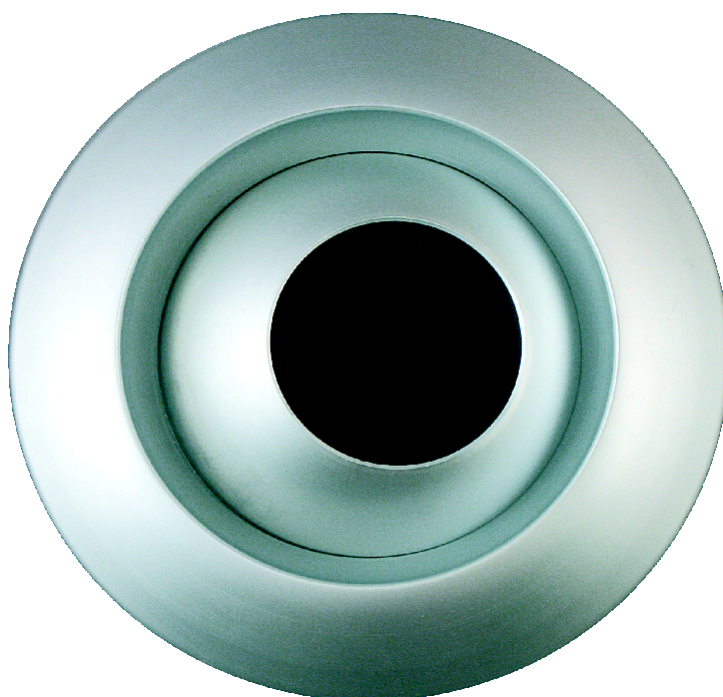


MADEL®



actif

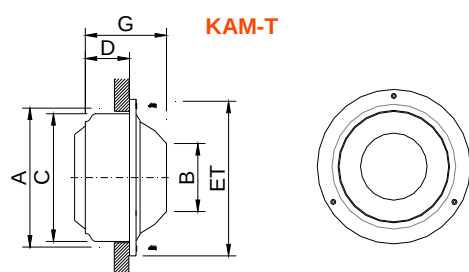
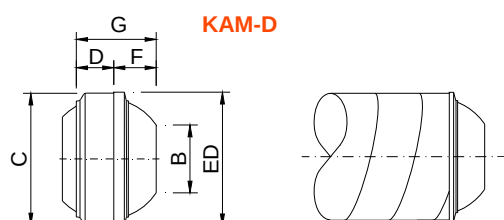
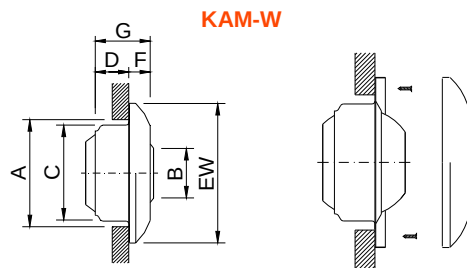
KAM Jet nozzles



MADEL®

The jet nozzles of **KAM** Series have been designed specifically to provide air diffusion into large spaces. They are special in so far as they can achieve a long throw on either heating or cooling whilst giving complete flexibility of direction.

The design is the result of a collaboration with **Benedito DESIGN** the brief being to provide a diffuser that encompasses smooth modern aesthetic lines that would appeal to the architectural market.



CLASSIFICATION

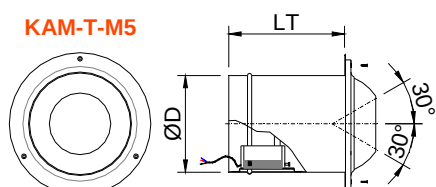
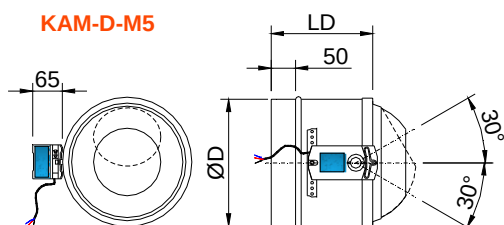
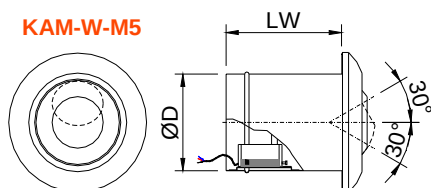
KAM-W Supply air jet nozzle, manually adjustable, suitable for mounting in a wall having a connection to either a circular or rectangular duct.

KAM-D Supply air jet nozzle, manually adjustable, suitable for direct mounting onto a visible circular duct.

KAM-T Supply air jet nozzle, manually adjustable, suitable for mounting in a wall. Fixing by visible screws.

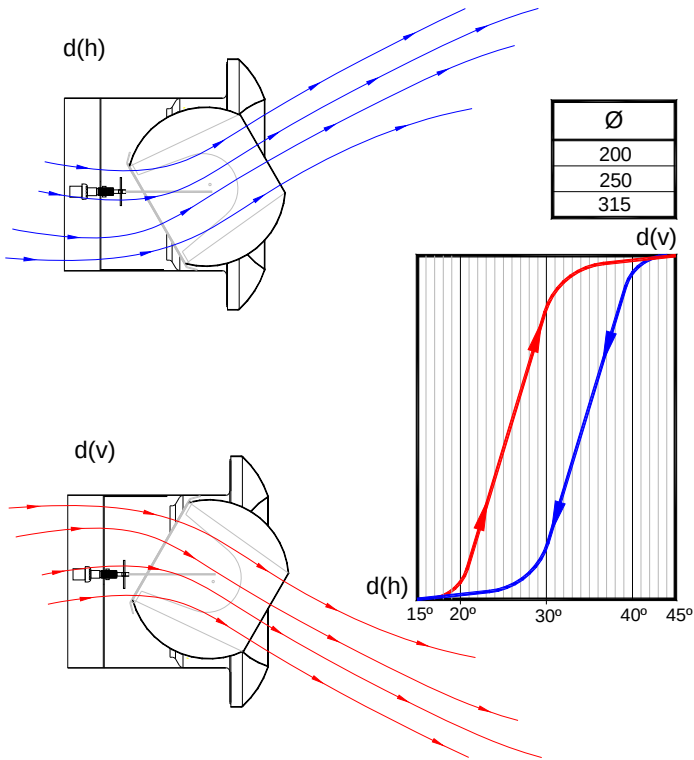
...-M5-24/230 Jet nozzle with supply air angle adjustable by means of actuator type On / Off.

Ø	A	B	C	D	EW	ED	ET	F	G
125	135	61	123	55	181	126	165	27	85
160	170	80	158	55	231	162	205	34	92
200	210	102	198	74	289	203	252	40	122
250	260	130	248	99	359	253	304	48	158
315	325	166	313	126	423	320	390	44	171
400	410	212	398	162	503	404	490	62	224



KAM	ØD	LW	LD	LT
250	248	302	199	302
315	313	330	211	330
400	398	390	222	390

KAM-ACTIF



KAM-ACTIF Jet nozzle that is autonomously thermally adjustable by means of a thermodynamic piston.

The jet nozzles of the KAM-ACTIF series are designed for air diffusion in large spaces and special applications, thanks to the long throw and directional control of their air streams and their capacity to handle large volumes of air.

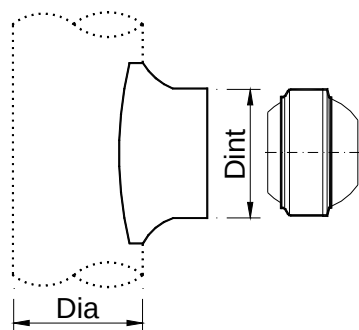
The supply air angle of the air streams varies in accordance with the supply air temperature, reducing stratification.

MATERIAL

Jet nozzle constructed from aluminium. Seal of rotation from immutable material, classified M1 and F2 as regards fire and smoke safety.

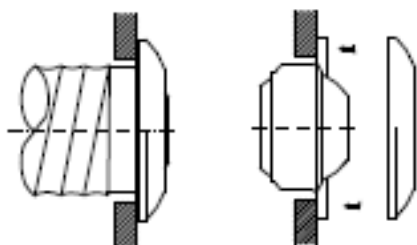
Time from 30° to 60°: 30 min.

IEH



	Dint
IEH-KAM-D-125-Dia	125
IEH-KAM-D-160-Dia	160
IEH-KAM-D-200-Dia	200
IEH-KAM-D-250-Dia	250
IEH-KAM-D-315-Dia	315
IEH-KAM-D-400-Dia	400

1) KAM-W



2) KAM-D



3) KAM-T



ACCESSORIES

IEH Pressed collar saddle for KAM-D mounting onto a visible circular duct.

FIXING SYSTEMS

- 1) Wall or ceiling mounting by means of hidden screws behind the ring.
- 2) Connection into a circular metallic duct.
- 3) Fixing by visible screws.

FINISHES

M9006 Lacquer in metallic grey colour, similar to RAL 9006.

R9010 Lacquer in white colour RAL 9010.

M9016 Lacquer in white colour similar to RAL 9016.

RAL... Lacquer in other colours (RAL specifications).

SPECIFICATION TEXT

Supply and mounting of manually adjustable long throw jet nozzle for wall mounting series **KAM-W M9016 dim. 125** constructed from aluminium, with seal of rotation from immutable material classified M1 and paint in white **M9016**. With hidden screws behind ring. Manufacturer **MADEL**.

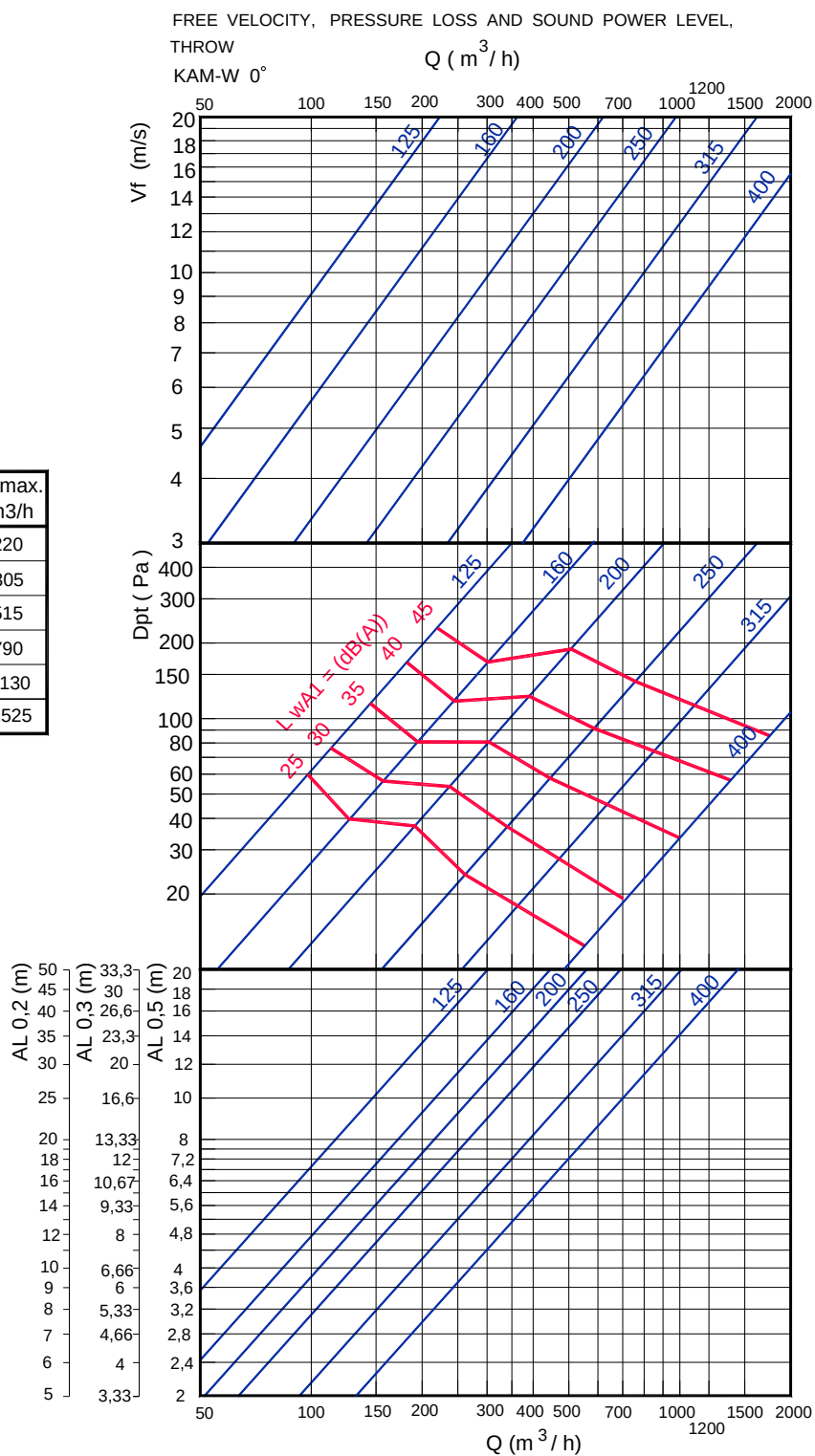
KAM

RECOMMENDED VELOCITY.

KAM	Vmin m/s	Vmax m/s
125	2,5	19,7
160	2,5	16,9
200	3	16,8
250	3,5	16,2
315	4	13,8
400	4	13,8

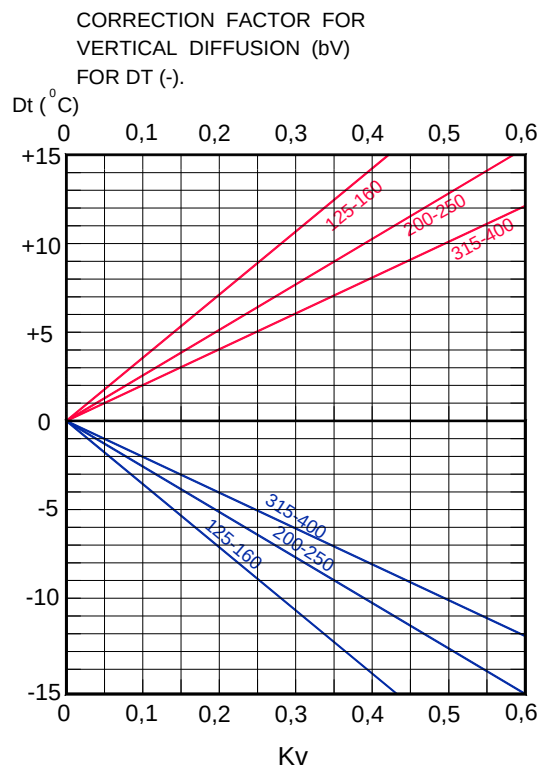
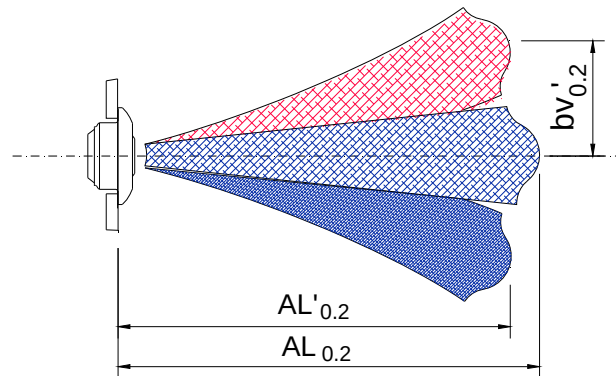
FREE FACE AREA (m2).

KAM	Ak m2	Afree m2	Qmin. m3/h	Qmax. m3/h
125	0,0123	0,0031	28	220
160	0,0201	0,005	45	305
200	0,0314	0,0085	92	515
250	0,0491	0,0135	170	790
315	0,0779	0,0226	325	1130
400	0,125	0,0353	500	1525



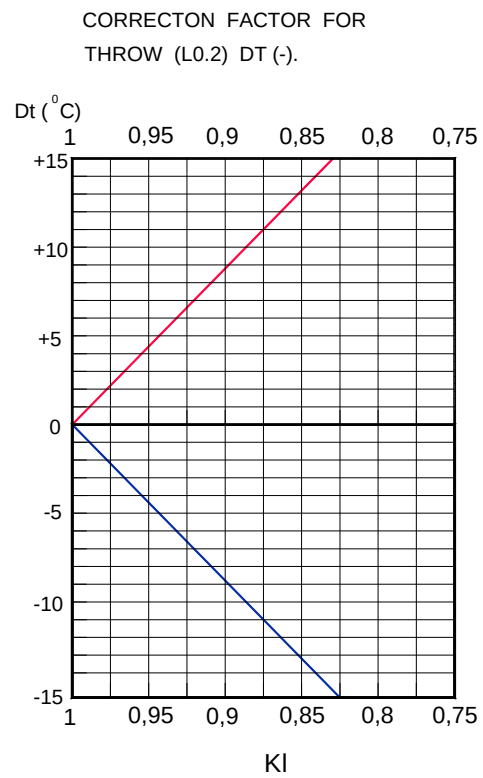
Note: In MadelMedia Octava band centre frequency in Hz.

KAM



$$bv'_{0.2} = Kv \times Al_{0.2}$$

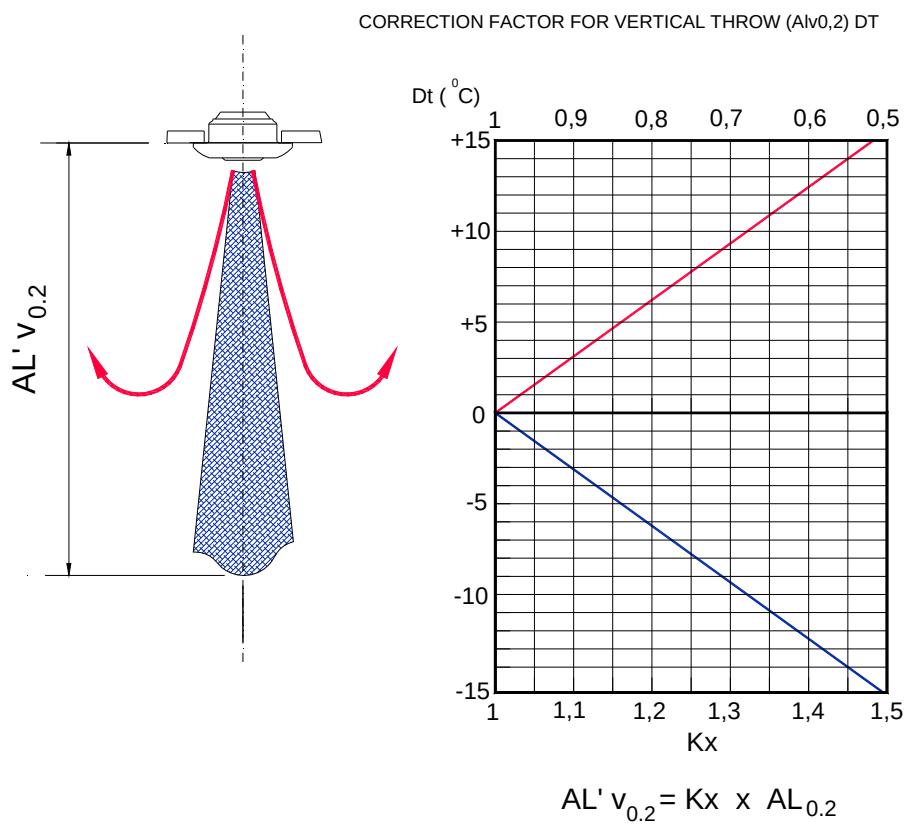
Kv = Correction factor for the vertical diffusion.



$$Al'_{0.2} = Kl \times Al_{0.2}$$

Kl = Correction factor for the throw.

KAM





KIN long throw mini jet nozzles

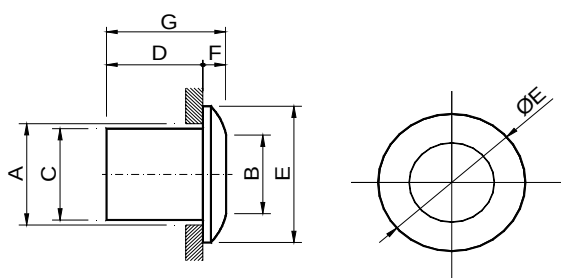


MADEL[®]

KIN long throw mini jet nozzles are designed to be used, in air conditioning, ventilation and heating systems at a temperature differential up to 12° C.

KIN mini jet nozzles are non-orientable suitable for wall or ceiling mounting.

KIN



Ø	A	B	C	D	E	F	G
63	73	53	61	60	91	14.5	74.5
80	90	70	78	60.5	115.5	18	78.5

CLASSIFICATION

KIN Non-orientable mini jet nozzle suitable for wall or ceiling mounting.

MATERIAL

Nozzles constructed from aluminium.

FIXING SYSTEMS

1) Neck installation by means of screw and jet nozzle pressed into the neck.

FINISHES

M9016 Painted in white similar to RAL 9016.

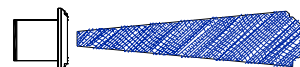
R9010 Painted in white RAL 9010.

RAL... Painted in other RAL colours.

SPECIFICATION TEXT

Supply and mounting of non-orientable long throw mini jet nozzle series **KIN M9016 diam. 100**, constructed from aluminium and paint in white **M9016** or another defined by the D.F., pressing fixation and neck mounting included.
Manufacturer **MADEL**.

KIN_{SERIES}

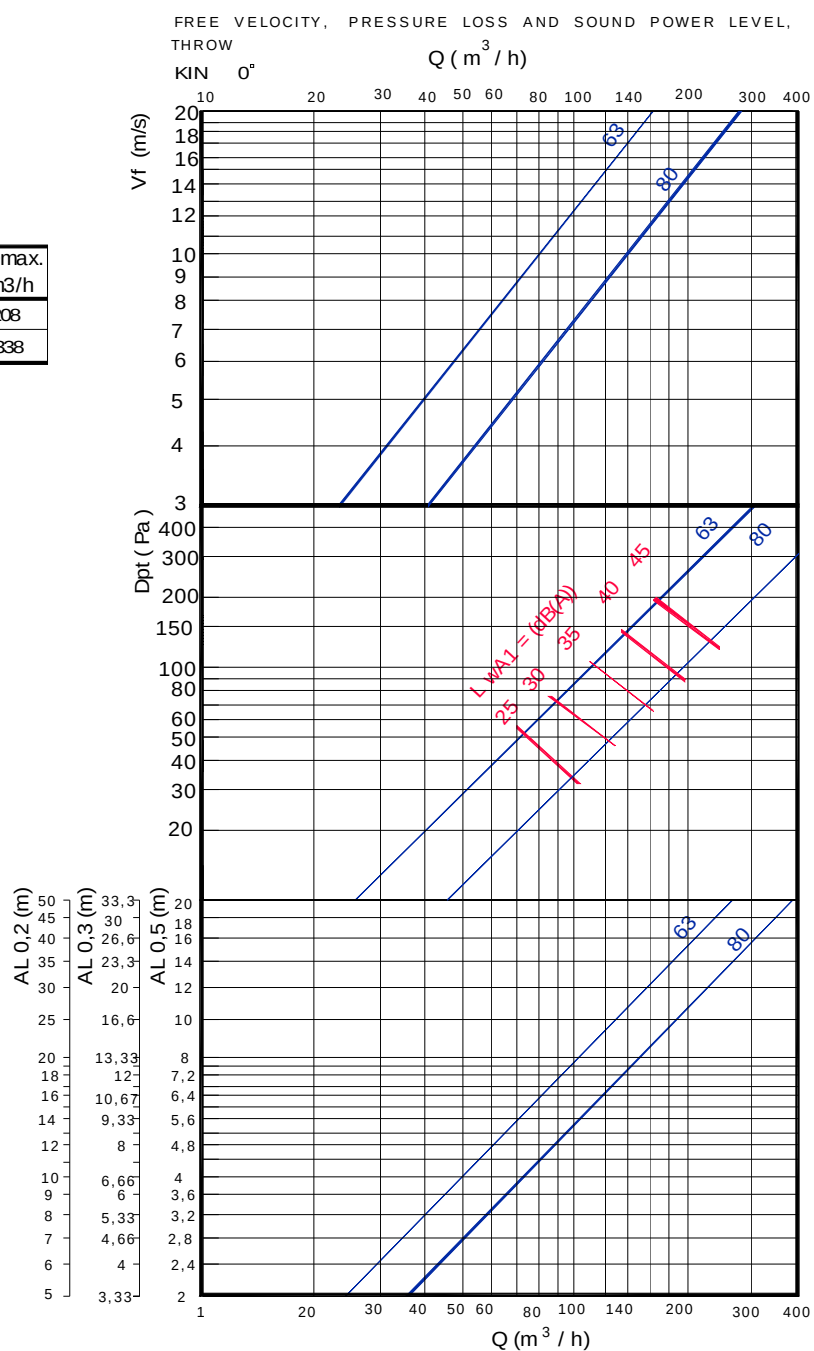


RECOMMENDED VELOCITY.

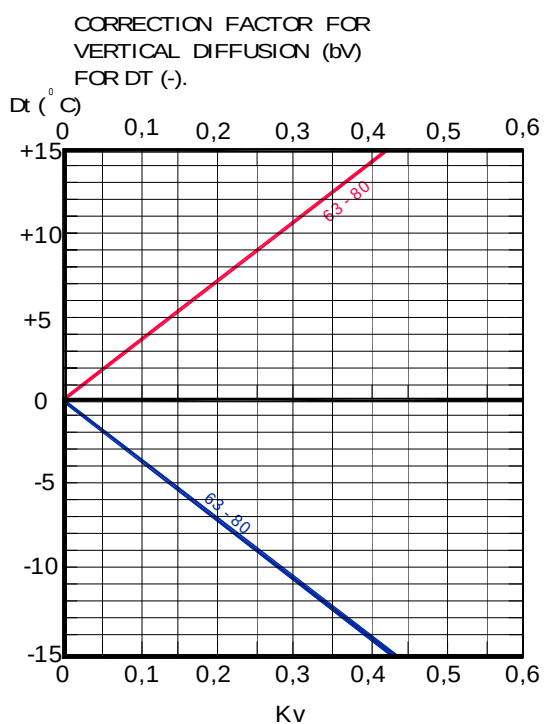
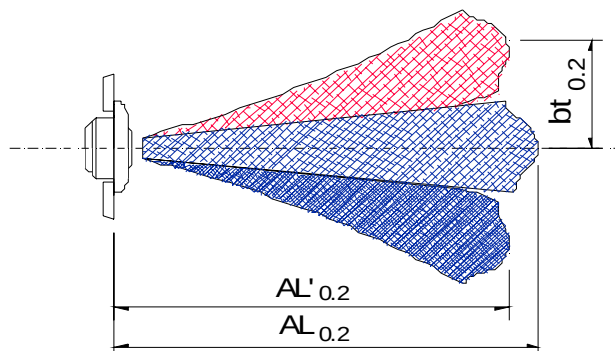
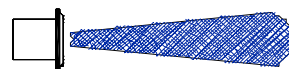
KIN	Vmin m/s	Vmax m/s
63	2,5	20
80	2,5	20

FREE FACE AREA (m2).

KIN	Ak m2	Afree m2	Qmin. m3/h	Qmax. m3/h
63	0,0029	0,0022	26	208
80	0,0047	0,0038	42	338

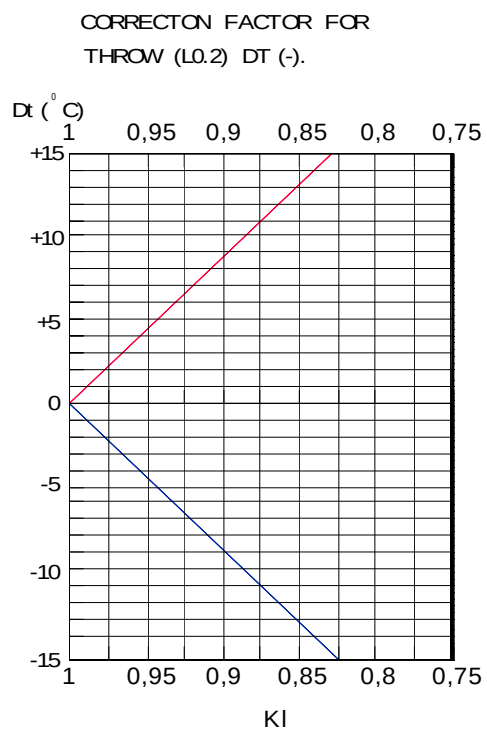


KIN SERIES



$$bt_{0.2} = Kv \times Al_{0.2}$$

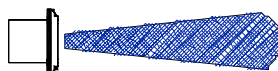
Kv = Correction factor for the vertical diffusion.



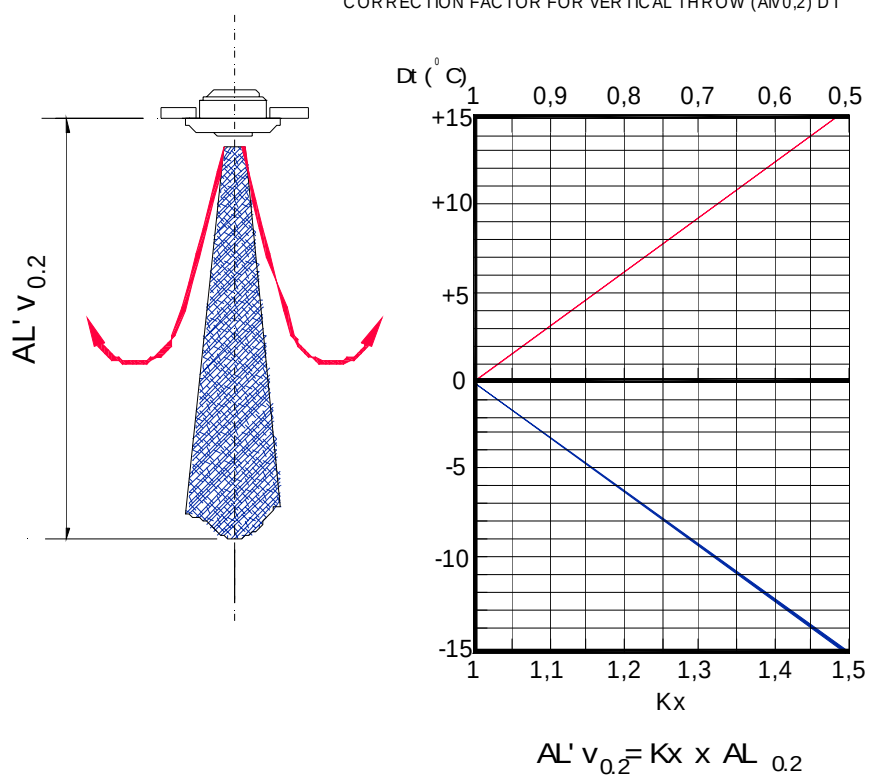
$$Al'_{0.2} = Kl \times Al_{0.2}$$

Kl = Correction factor for the throw.

KIN SERIES



CORRECTION FACTOR FOR VERTICAL THROW (ALV_{0.2}) DT





Lievore,
Altherr
& Molina

KIS micro-jet nozzles linear diffusers

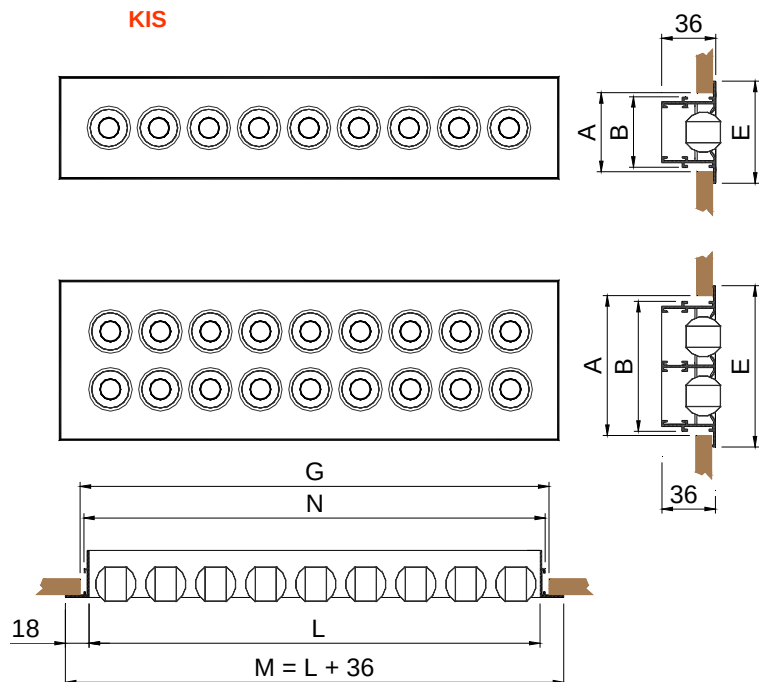
**MADEL**[®]

The **KIS** linear diffusers are designed to be applied in air conditioning ventilation and heating systems and at a temperature differential up to 12°C.

Micro-jet nozzles linear diffusers, giving complete flexibility of direction, suitable for wall or ceiling mounting. Diffuser constructed from aluminium and nozzles from PP.

As the result of collaboration with the **Lievore, Altherr & Molina** studio, **KIS** diffuser provides a new look for this type of diffusers, with smoother lines, reducing the visual impact within the interior architectures.

KIS



	E	A	B
KIS 1	68	55	47
KIS 2	107	95	86

L	M	N	G
500	536	507	516
1000	1036	1007	1016
1200	1236	1207	1216
1500	1536	1507	1516
2000	2036	2007	2016

CLASSIFICATION

KIS-AR Diffuser with end borders included.
Suitable for lengths ≤ 2 m.

...-ARI Diffuser with an end border on the left side, required to form lines > 2 m.

...-ARD Diffuser with an end border on the right side, required to form lines > 2 m.

...-INT Diffuser without end borders, required to form lines > 4 m.

MATERIAL

Diffuser constructed from aluminium and nozzles from PP plastic.

ACCESSORIES

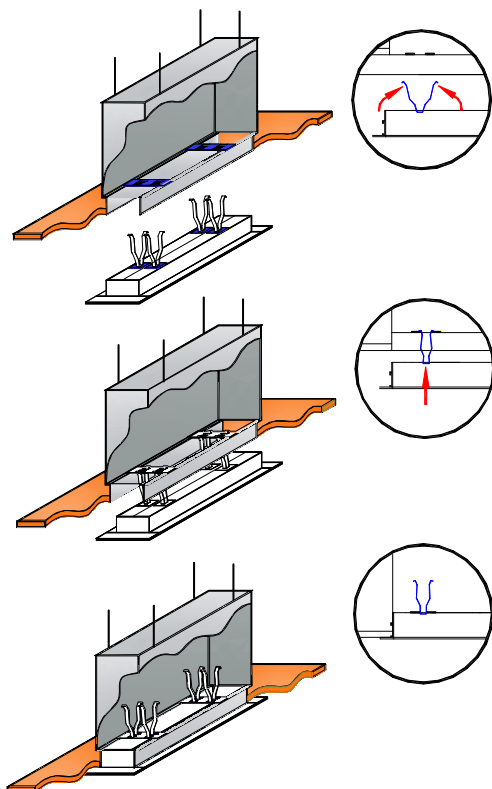
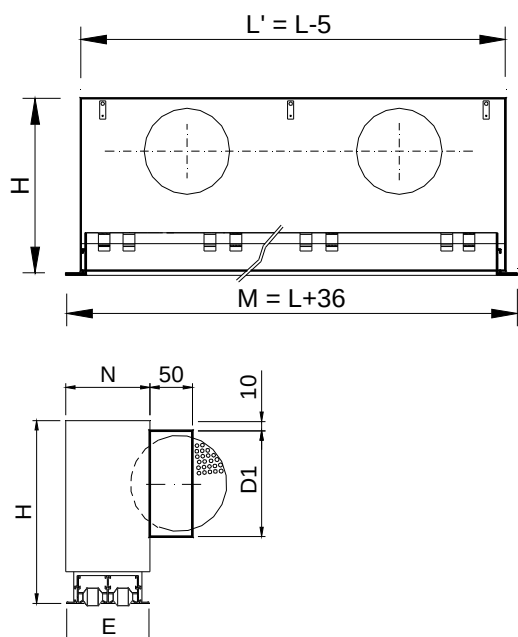
PLSD Plenum box with lateral circular connection. It includes supports to hang from the ceiling. Made in galvanised steel.

...-R Plenum box with a flow damper in the spigot.

.../AIS/ Plenum box thermo acoustically insulated by a foam with a coefficient of thermal conductivity of 0,04 w/mk. This foam complies with the fire reaction specifications:

UNE 23-727 M2
NFP 92-501 M2
DIN 4102 M2

KIS



FIXING SYSTEMS

(D) Support brackets to hang KIS or KIS+PLSD from the ceiling.

(PL) Connection into PLSD+PML plenum box by clips, to hang from the ceiling. This system simplifies and facilitates the assembly and disassembling of the diffuser into the plenum box.

(PM) Set of crossbars for installation of the diffuser without plenum in false ceiling.

FINISHES

M9016 Painted in white similar to RAL 9016 with white nozzles.

R9010 Painted in white RAL 9010 with white nozzles.

M9006 Painted in grey similar to RAL 9006 with black nozzles.

R9005 Painted in black RAL 9005 with black nozzles.

RAL... Painted in other RAL colours with black or white nozzles.

SPECIFICATION TEXT

Supply and mounting of linear diffuser with micro-jet nozzles adjustable in all directions series **KIS-AR+PLSD-R M9016 1x1000** constructed from aluminium paint in white **M9016**. With lateral connection plenum box and air flow damper in the spigot **PLSD-R**.

Manufacturer **MADEL**.

	0,5 < L < 1,2		1,3 < L < 1,5		1,6 < L < 2			
	H	D1	H	D1	H	D1	N	E
KIS 1	256	1/158	256	1/158	256	2/158	69	68
KIS 2	256	1/158	256	2/158	256	2/158	108	107

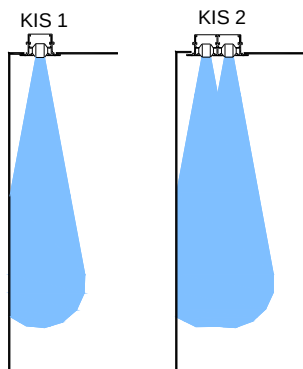
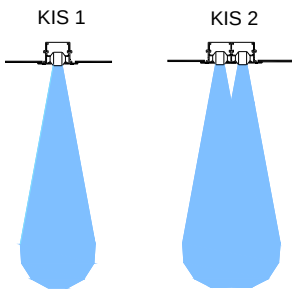


KIS

m	KIS 1	Vmin m/s	Vmax m/s	Qmin m3/h	Qmax m3/h
0.5	0.0024	2.5	6.5	25	57
1	0.0048	2.5	6.5	43	112
1,1	0.0053	2.5	6.5	48	125
1,2	0.0058	2.5	6.5	52	135
1,3	0.0063	2.5	6.5	56	146
1,4	0.0067	2.5	6.5	60	158
1,5	0.0072	2.5	6.5	65	169
1,6	0.0077	2.5	6.5	69	180
1,7	0.0082	2.5	6.5	74	191
1,8	0.0087	2.5	6.5	78	203
1,9	0.0092	2.5	6.5	82	215
2	0.0096	2.5	6.5	86	225



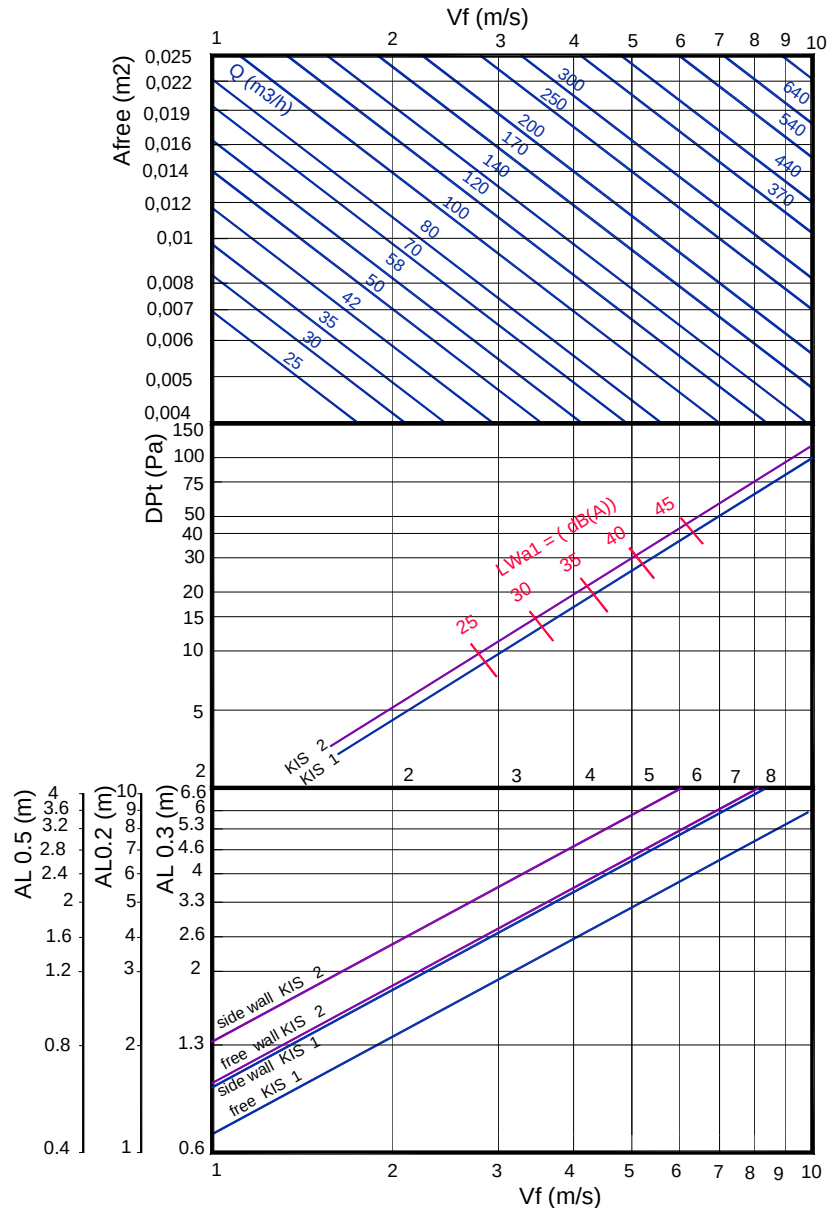
m	KIS 2	Vmin m/s	Vmax m/s	Qmin m3/h	Qmax m3/h
0.5	0.0048	2.5	5.5	43	95
1	0.0096	2.5	5.5	86	190
1,1	0.0106	2.5	5.5	95	210
1,2	0.0116	2.5	5.5	104	229
1,3	0.0125	2.5	5.5	112	248
1,4	0.0135	2.5	5.5	122	267
1,5	0.0145	2.5	5.5	130	286
1,6	0.0154	2.5	5.5	139	305
1,7	0.0164	2.5	5.5	148	324
1,8	0.0174	2.5	5.5	157	343
1,9	0.0183	2.5	5.5	165	365
2	0.0193	2.5	7	174	382

CORRECTION FACTOR FOR
THROW KL

	0.5 m	1 m	1.5 m	2 m
1	0.71	1	1.07	1.14
2	0.73	1	1.09	1.15

$$AL'02 = KI \times AL02$$

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL,
THROW WITH CEILING EFFECT: 1 DIRECTION.



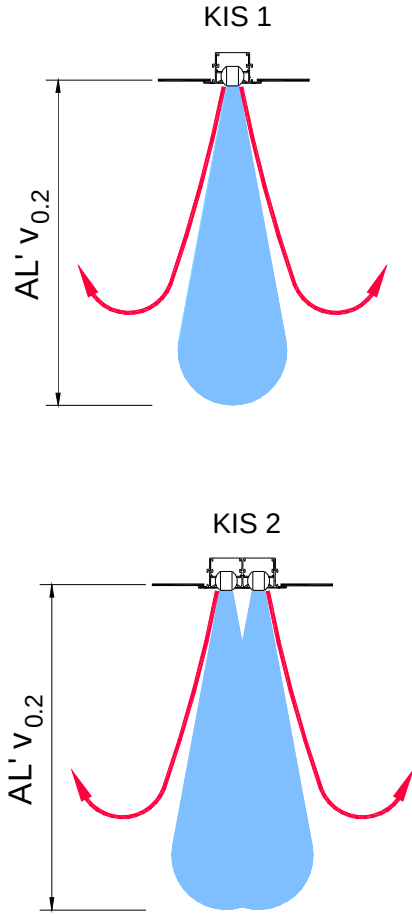
Note: In MadelMedia Octava band centre frequency in Hz.

CORRECTION FACTOR FOR D_{pt} AND L_{wa1} .

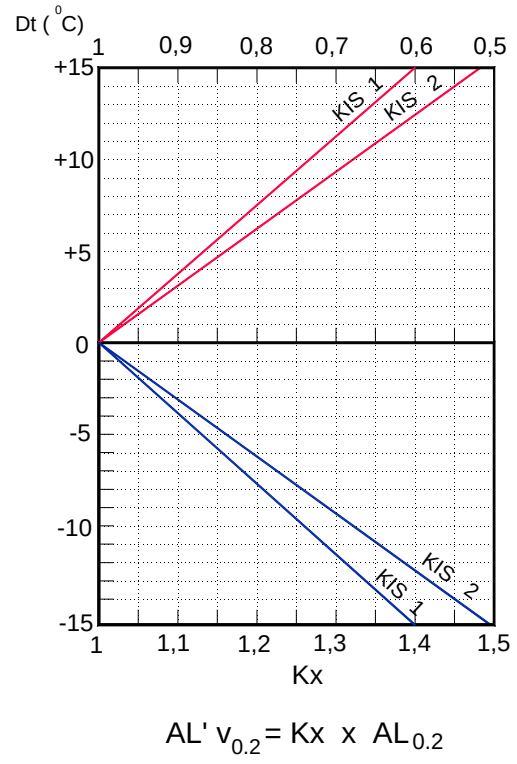
		0.5 m			1 m			1.5 m			2 m		
		100%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	0%
1	Dpt	0.95	2.35	3.15	1	1.4	2.2	1	1.4	2.2	1.1	2.5	3.3
	Lwa1	-6.1	-3.1	-3.6	0	+0.8	+0.4	+0.9	+1.6	+1	-2.1	-0.5	-1.9
2	Dpt	0.98	2.48	3.25	1	1.5	2.3	1	1.5	2.3	1.2	2.7	3.5
	Lwa1	-3.8	-3.4	-2.9	0	+0.6	+0.6	+2.4	+3.3	+3.2	-0.3	+0.9	+1.1

$$D_{pt1} = K_p \times D_{pt}$$

$$L_{wa1} = L_{wa} + K_f$$



CORRECTION FACTOR FOR VERTICAL THROW ($ALv_{0.2}$) DT



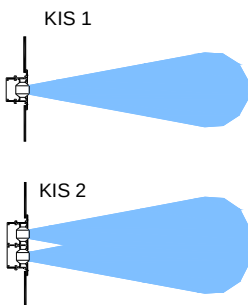
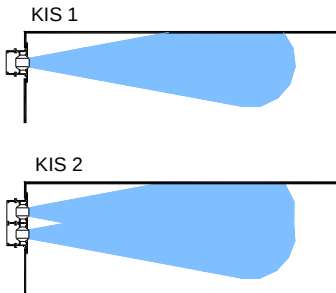


KIS

m	KIS 1	Vmin m/s	Vmax m/s	Qmin m3/h	Qmax m3/h
0.5	0.0024	2.5	6.5	25	57
1	0.0048	2.5	6.5	43	112
1,1	0.0053	2.5	6.5	48	125
1,2	0.0058	2.5	6.5	52	135
1,3	0.0063	2.5	6.5	56	146
1,4	0.0067	2.5	6.5	60	158
1,5	0.0072	2.5	6.5	65	169
1,6	0.0077	2.5	6.5	69	180
1,7	0.0082	2.5	6.5	74	191
1,8	0.0087	2.5	6.5	78	203
1,9	0.0092	2.5	6.5	82	215
2	0.0096	2.5	6.5	86	225



m	KIS 2	Vmin m/s	Vmax m/s	Qmin m3/h	Qmax m3/h
0.5	0.0048	2.5	5.5	43	95
1	0.0096	2.5	5.5	86	190
1,1	0.0106	2.5	5.5	95	210
1,2	0.0116	2.5	5.5	104	229
1,3	0.0125	2.5	5.5	112	248
1,4	0.0135	2.5	5.5	122	267
1,5	0.0145	2.5	5.5	130	286
1,6	0.0154	2.5	5.5	139	305
1,7	0.0164	2.5	5.5	148	324
1,8	0.0174	2.5	5.5	157	343
1,9	0.0183	2.5	5.5	165	365
2	0.0193	2.5	7	174	382

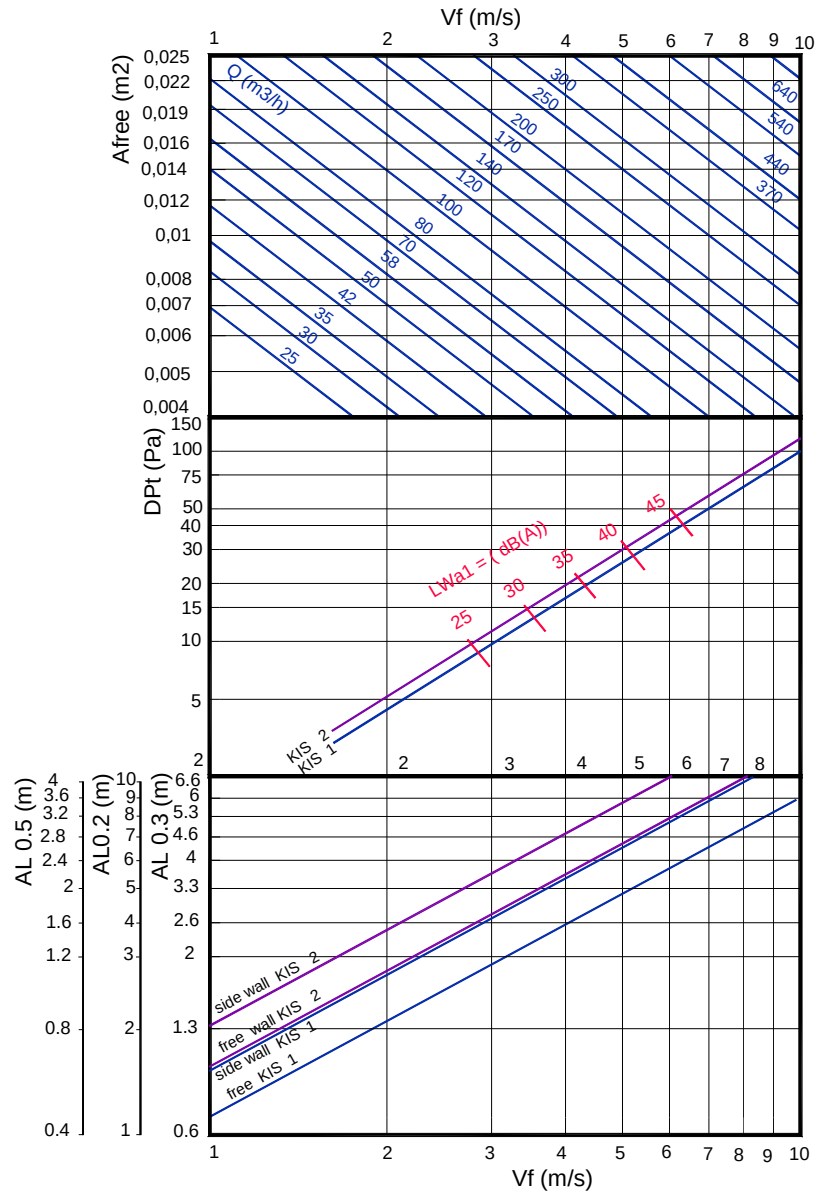


CORRECTION FACTOR FOR
THROW KL

	0.5 m	1 m	1.5 m	2 m
1	0.71	1	1.07	1.14
2	0.73	1	1.09	1.15

$$AL'02 = KI \times AL02$$

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL,
THROW WITH CEILING EFFECT: 1 DIRECTION.

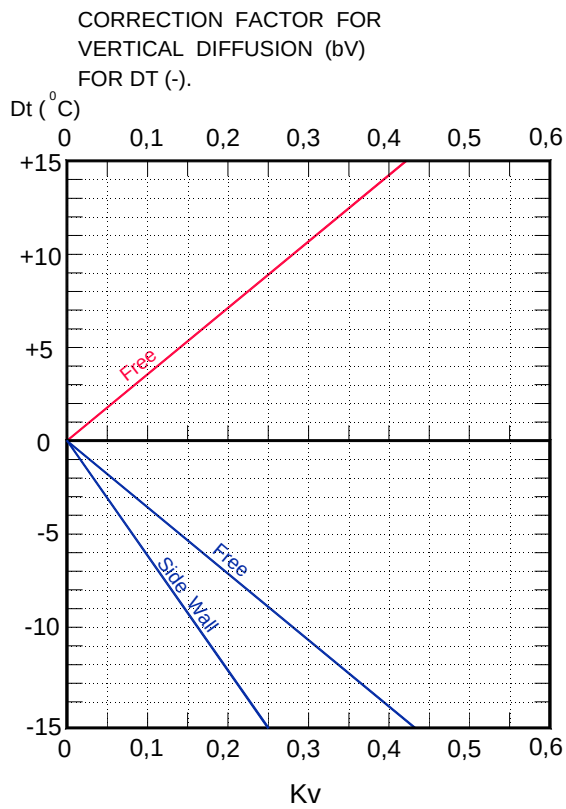
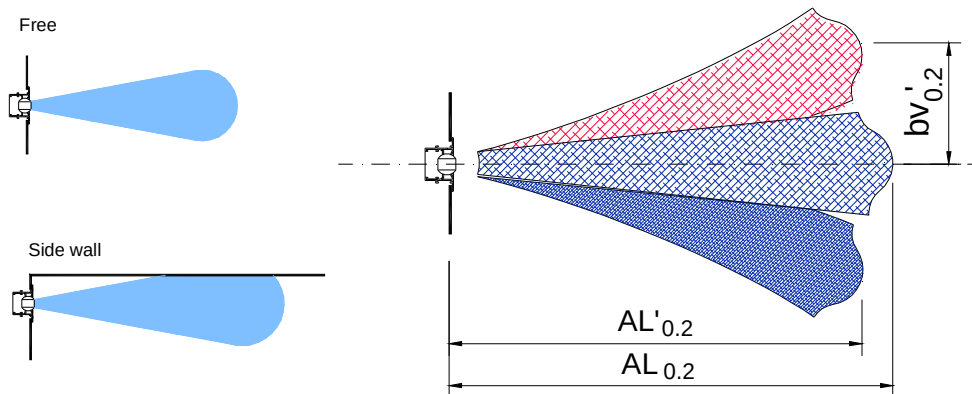


CORRECTION FACTOR FOR D_{Pt} AND L_{wa1} .

		0.5 m			1 m			1.5 m			2 m		
		100%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	0%
1	D_{Pt}	0.95	2.35	3.15	1	1.4	2.2	1	1.4	2.2	1.1	2.5	3.3
	L_{wa1}	-6	-3	-3.6	0	0.8	0.4	+1.2	+1.9	+1.4	-2	-	-1.6
2	D_{Pt}	0.98	2.48	3.25	1	1.5	2.3	1	1.5	2.3	1.2	2.7	3.5
	L_{wa1}	-4	-3.6	-3.1	0	+0.6	+0.6	+2.3	+3.2	+3.1	0	+1	+1.2

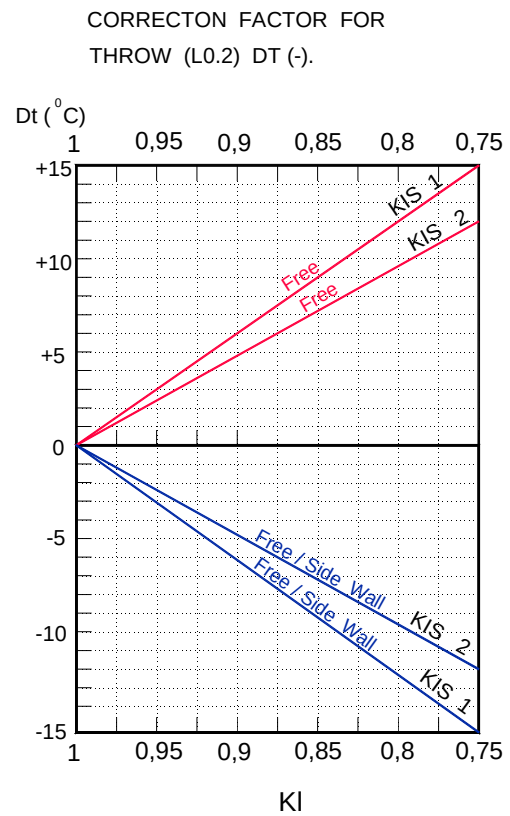
$$D_{Pt1} = K_p \times D_{Pt}$$

$$L_{wa1} = L_{wa} + K_f$$



$$bv'_{0.2} = Kv \times Al_{0.2}$$

Kv = Correction factor for the vertical diffusion.



$$Al'_{0.2} = KI \times Al_{0.2}$$

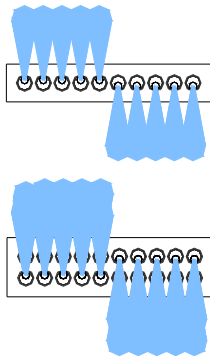
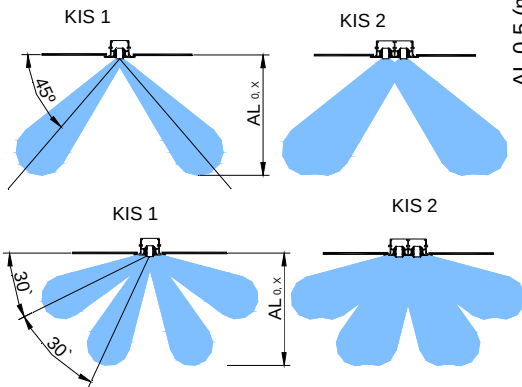
KI = Correction factor for the throw.

 KIS

m	KIS 1	Vmin m/s	Vmax m/s	Qmin m3/h	Qmax m3/h
0.5	0.0024	2.5	6.5	25	57
1	0.0048	2.5	6.5	43	112
1.1	0.0053	2.5	6.5	48	125
1.2	0.0058	2.5	6.5	52	135
1.3	0.0063	2.5	6.5	56	146
1.4	0.0067	2.5	6.5	60	158
1.5	0.0072	2.5	6.5	65	169
1.6	0.0077	2.5	6.5	69	180
1.7	0.0082	2.5	6.5	74	191
1.8	0.0087	2.5	6.5	78	203
1.9	0.0092	2.5	6.5	82	215
2	0.0096	2.5	6.5	86	225



m	KIS 2	Vmin m/s	Vmax m/s	Qmin m3/h	Qmax m3/h
0.5	0.0048	2.5	5.5	43	95
1	0.0096	2.5	5.5	86	190
1.1	0.0106	2.5	5.5	95	210
1.2	0.0116	2.5	5.5	104	229
1.3	0.0125	2.5	5.5	112	248
1.4	0.0135	2.5	5.5	122	267
1.5	0.0145	2.5	5.5	130	286
1.6	0.0154	2.5	5.5	139	305
1.7	0.0164	2.5	5.5	148	324
1.8	0.0174	2.5	5.5	157	343
1.9	0.0183	2.5	5.5	165	365
2	0.0193	2.5	5.5	174	382

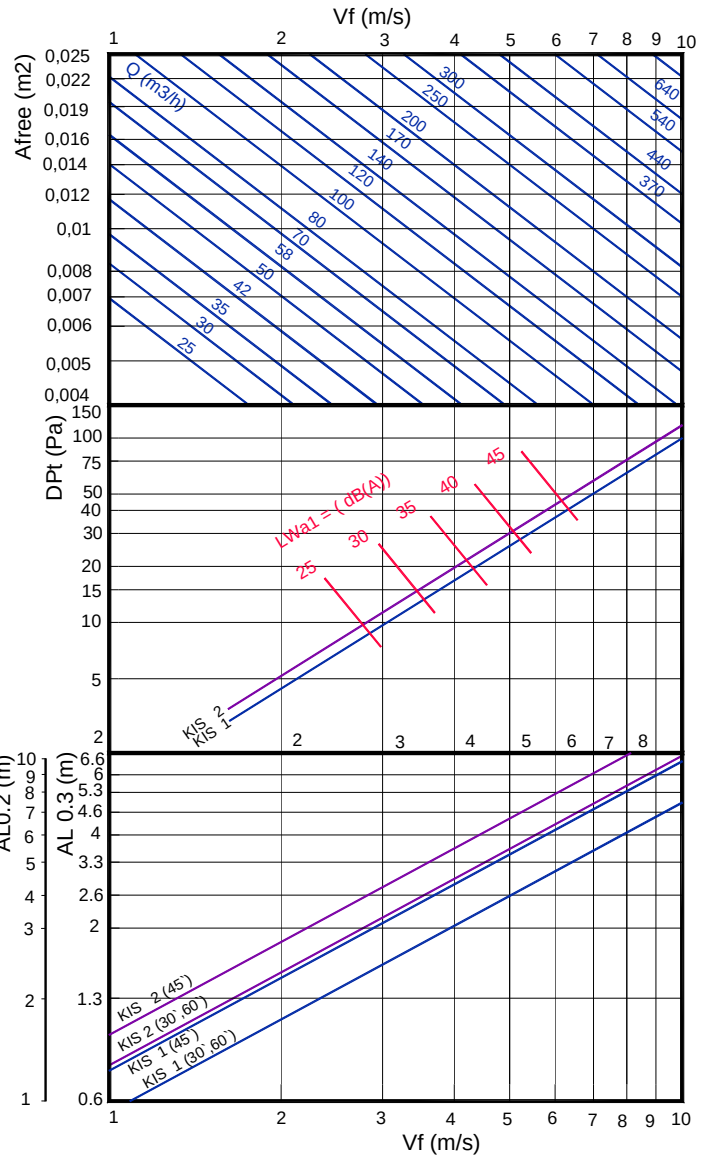


CORRECTION FACTOR FOR
THROW KL

	0.5 m	1 m	1.5 m	2 m
1	0.71	1	1.07	1.14
2	0.73	1	1.09	1.15

$$AL'02 = KI \times AL02$$

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL,
THROW WITH CEILING EFFECT: 1 DIRECTION.

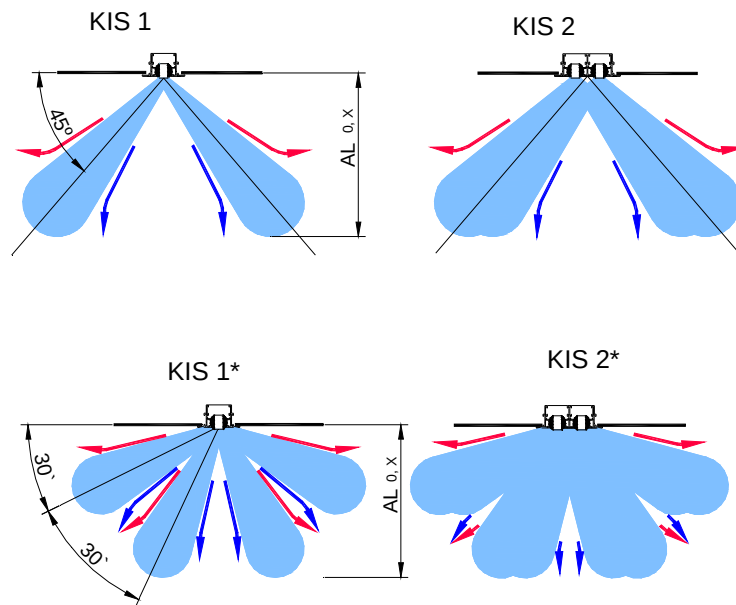


CORRECTION FACTOR FOR DPT AND Lwa1.

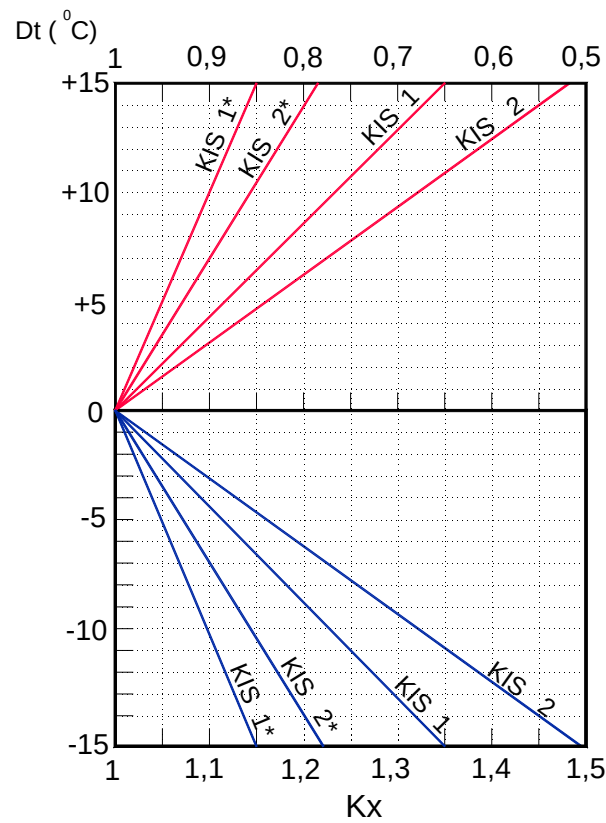
		0.5 m			1 m			1.5 m			2 m		
		100%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	0%
1	Dpt	0.95	2.35	3.15	1	1.4	2.2	1	1.4	2.2	1.1	2.5	3.3
	Lwa1	-6	-3	-3.7	0	+0.8	+0.4	+1	+1.7	+1.2	-2.1	-0.4	-1.9
2	Dpt	0.98	2.48	3.25	1	1.5	2.3	1	1.5	2.3	1.2	2.7	3.5
	Lwa1	-3.7	-3.4	-2.9	0	+0.6	+0.6	+2.4	+3.3	+3.2	-0.5	+0.8	+0.9

$$DPT1 = Kp \times DPT$$

$$Lwa1 = Lwa + Kf$$



CORRECTION FACTOR FOR VERTICAL THROW ($AL_{0,2}$) DT



$$AL' v_{0,2} = Kx \times AL_{0,2}$$



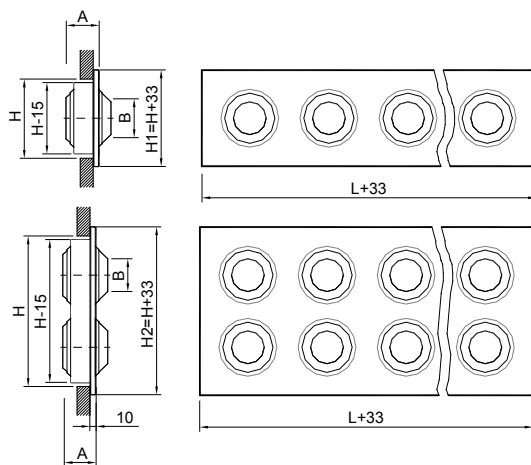
KOO MULTI-JET NOZZLES

The **KOO** multi-jet nozzles are designed to be used, in air conditioning, ventilation and heating systems at a temperature differential up to 12°C. They can be mounted in the wall or the ceiling.

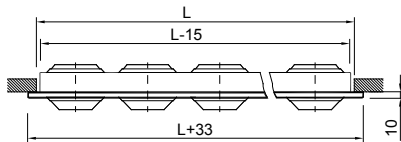
The KOO multi-jet nozzles respond to different functional and architectural requirements thanks to their manually adjustable nozzles in all directions. Depending of the size of the rectangular panel, the integrated nozzles can be from 80 or 125 mm.

Thanks to its long throw and flexibility of direction of the air pattern, KOO multi-jet nozzles are suitable for air diffusion in all kinds of different architectures. It provides a high induction air rate level, reducing stratification.

The KOO multi-jet nozzles represents a vanguard in design of air diffusers. Integrating the jet nozzles into the panel, the outcome is a smooth and homogeneous surface, reducing the visual impact within the interior architectures.



$\bar{y}$	LxH	B	A	H1	H2	UN.	
80	Lx100	44	35	133	-	L/H	1 line
	Lx200	44	35	-	233	4x(L/H)	2 lines
125	Lx150	61	57	183	-	L/H	1 line
	Lx300	61	57	-	333	4x(L/H)	2 lines



Lx100	n [∞] toberas	Lx200	n [∞] toberas	Lx150	n [∞] toberas	Lx300	n [∞] toberas
200x100	2	200x200	4	300x150	2	300x300	4
300x100	3	300x200	6	450x150	3	450x300	6
400x100	4	400x200	8	600x150	4	600x300	8
500x100	5	500x200	10	750x150	5	750x300	10
600x100	6	600x200	12	900x150	6	900x300	12
700x100	7	700x200	14	1050x150	7	1050x300	14
800x100	8	800x200	16	1200x150	8	1200x300	16
900x100	9	900x200	18				
1000x100	10	1000x200	20				

CLASSIFICATION

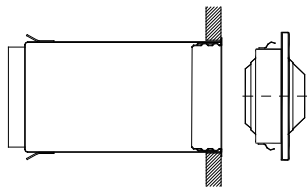
KOO Manually adjustable multi-jet nozzle.

MATERIAL

Jet nozzles constructed from aluminium and the panel from galvanised steel.

The seal of rotation is made from immutable material, classified M1 and F2 as regards fire and smoke safety.

PLRX



ADDITIONAL ACCESSORIES

PLRX Plenum box with an upper circular connection, constructed from galvanised steel.

.../L/ Lateral circular connection.

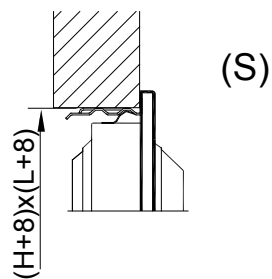
...-R Flow damper in the spigot.

.../AIS/ Thermo acoustically insulated by a foam with a coefficient of thermal conductivity of 0,04 w/mk. This foam complies with the fire specifications:

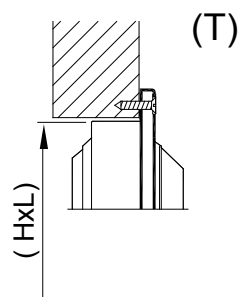
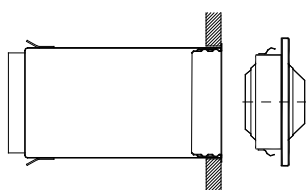
UNE 23-727 M2

NFP 92-501 M2

DIN 4102 M2



(PL)



FIXING SYSTEMS

(S) Invisible fixing by means of pressure clips. It requires **CM** mounting frame. Constructed from galvanised steel.

(S) Invisible fixing by means of pressure clips. It requires **PLRX** plenum box.

(T) Visible screws.
Required for ceiling mounting.

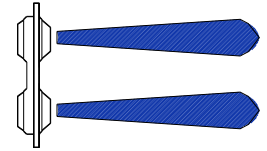
FINISHES

R9010 Lacquer in white colour RAL 9010.

M9016 Lacquer in white colour similar to RAL 9016.

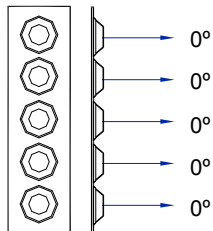
RAL... Lacquer in other colours (RAL specifications).

KOO SERIES



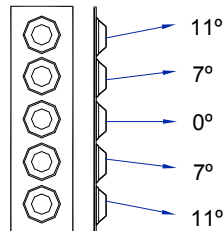
POSITION 1 (0°)

KOO Lx100
KOO Lx150



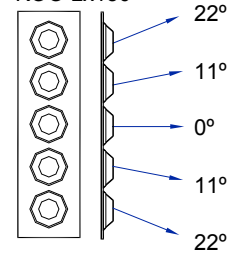
POSITION 2 (22°)

KOO Lx100
KOO Lx150



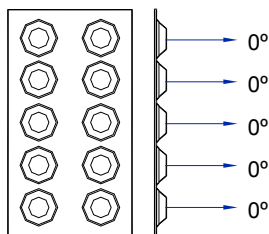
POSITION 3 (45°)

KOO Lx100
KOO Lx150



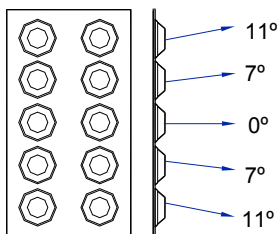
POSITION 1 (0°)

KOO Lx200
KOO Lx300



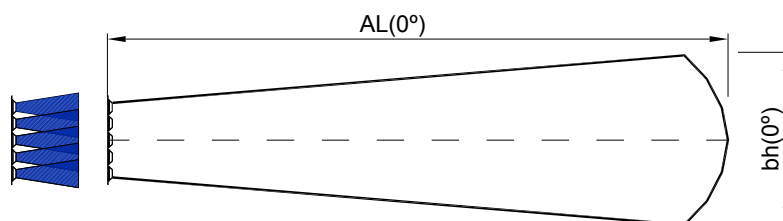
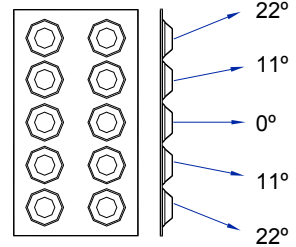
POSITION 2 (22°)

KOO Lx200
KOO Lx300



POSITION 3 (45°)

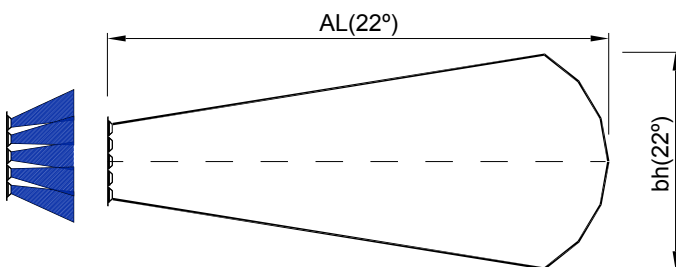
KOO Lx200
KOO Lx300



POSITION 1 (0°)

$AL(0°) = AL$

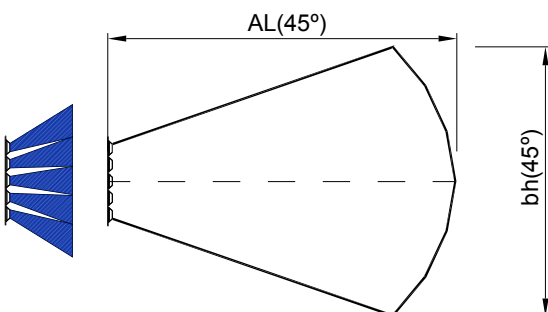
$bh(0°) = 0,28 \times AL$



POSITION 2 (22°)

$AL(22°) = 0,7 \times AL$

$bh(22°) = 0,68 \times AL$

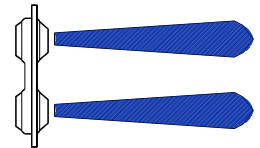


POSITION 3 (45°)

$AL(45°) = 0,5 \times AL$

$bh(45°) = 1,15 \times AL$

KOO SERIES



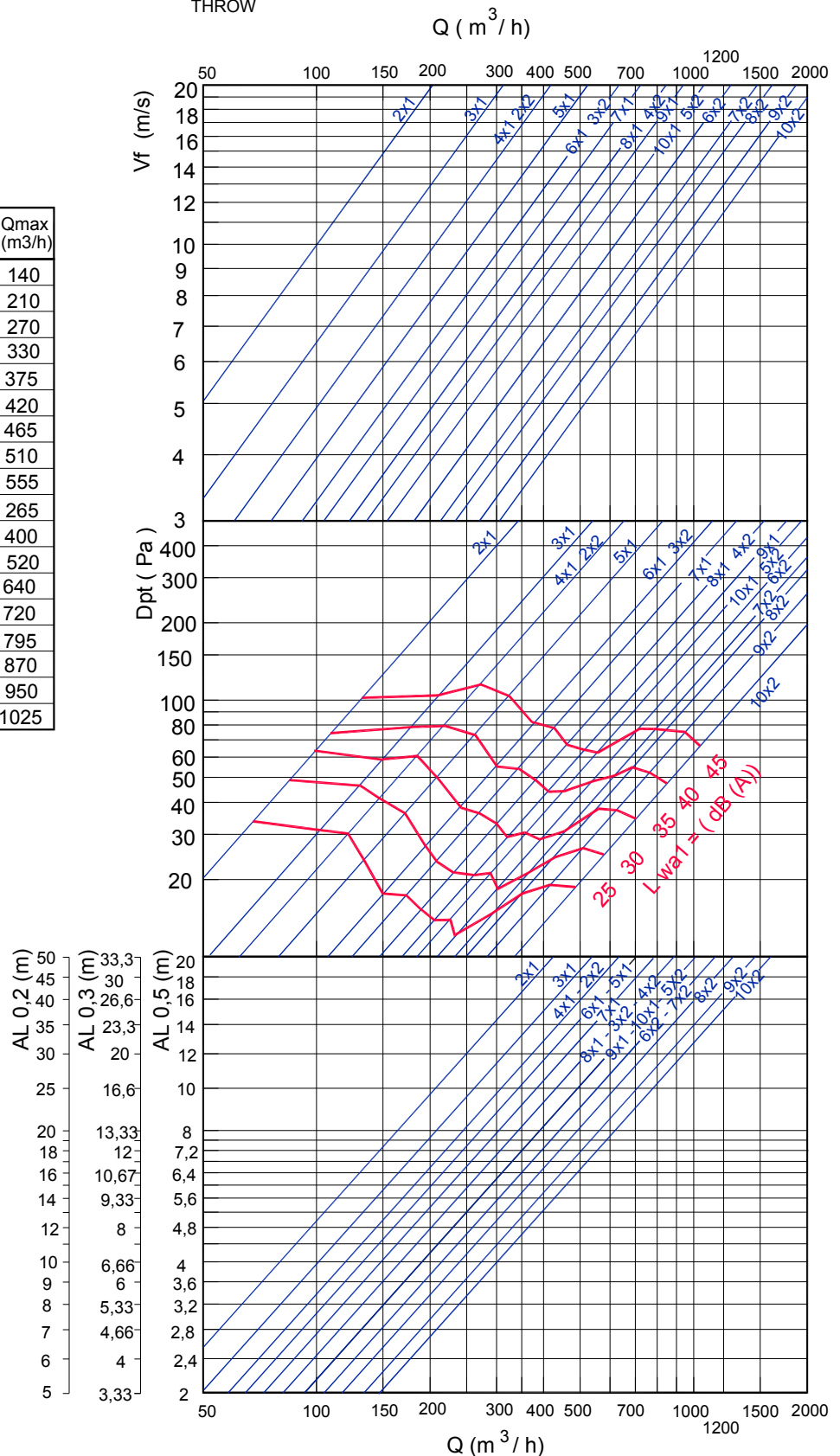
RECOMMENDED VELOCITY.

	Vfmin m/s	Vfmax m/s
Lx100	2,5	10,7
Lx200	2,5	9,8

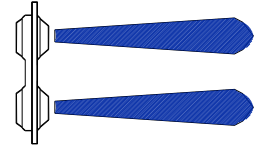
FREE FACE AREA (m2).

LxH		Afree (m2)	Qmin (m3/h)	Qmax (m3/h)
200x100	2x1	0,0028	25	140
300x100	3x1	0,0043	39	210
400x100	4x1	0,0057	51	270
500x100	5x1	0,0072	65	330
600x100	6x1	0,0086	77	375
700x100	7x1	0,01	90	420
800x100	8x1	0,0114	103	465
900x100	9x1	0,0129	116	510
1000x100	10x1	0,0144	130	555
200x200	2x2	0,0057	51	265
300x200	3x2	0,0086	77	400
400x200	4x2	0,0114	103	520
500x200	5x2	0,0144	130	640
600x200	6x2	0,0172	155	720
700x200	7x2	0,02	180	795
800x200	8x2	0,022	198	870
900x200	9x2	0,0258	232	950
1000x200	10x2	0,0288	259	1025

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL, THROW



KOO SERIES



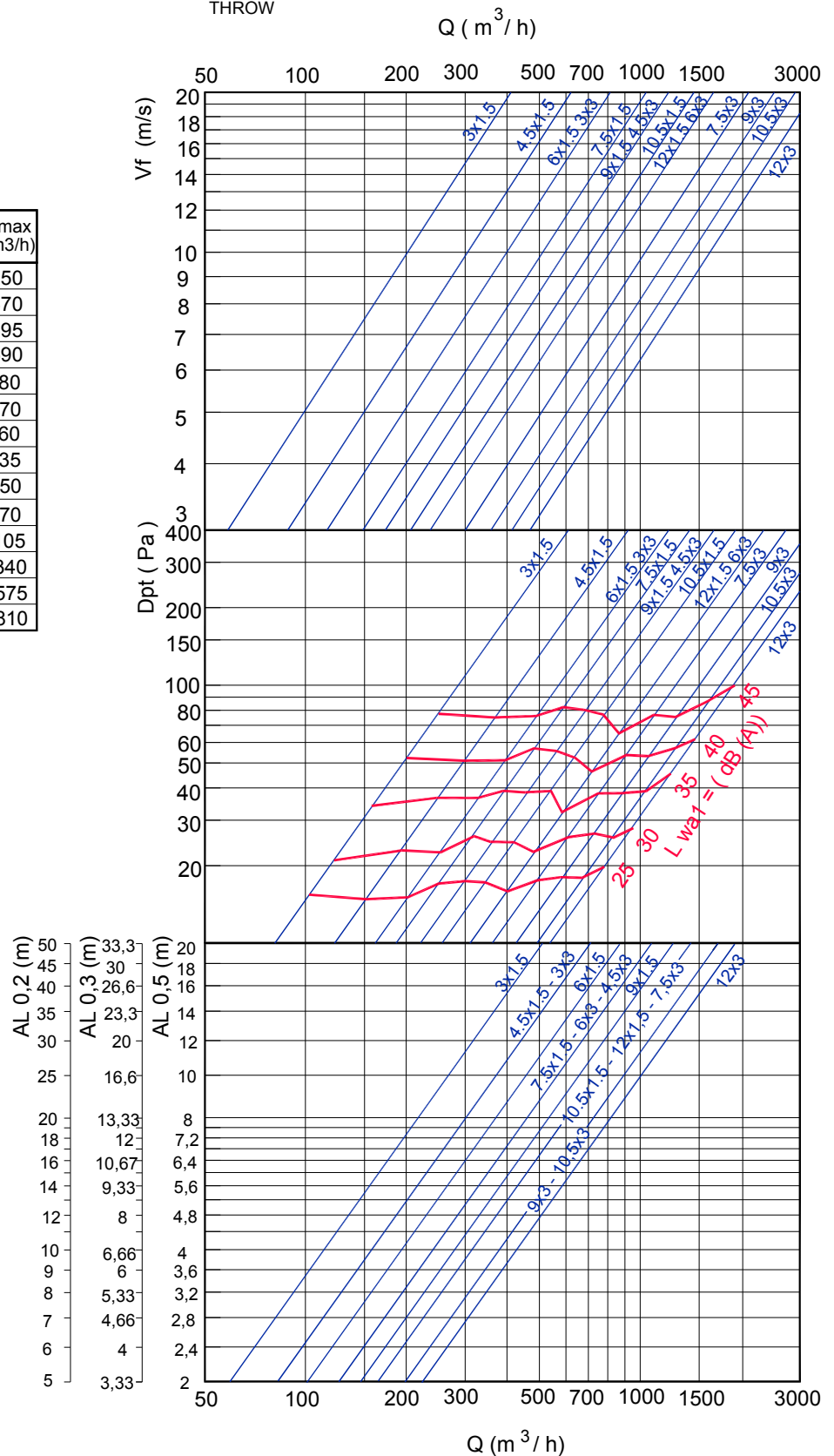
RECOMMENDED VELOCITY.

	Vfmin m/s	Vfmax m/s
Lx150	2,5	10,6
Lx300	2,5	11

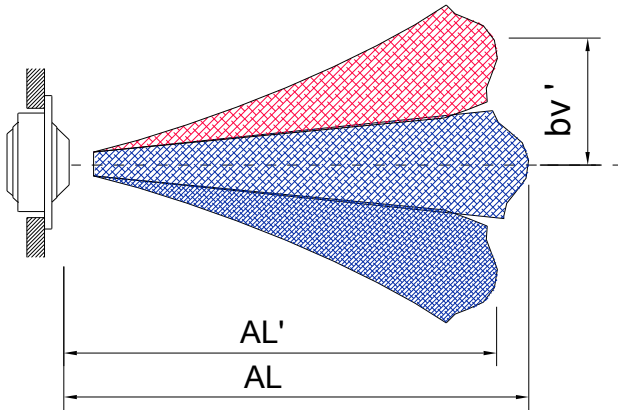
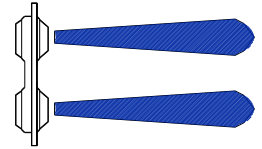
FREE FACE AREA (m2).

LxH		Afree (m2)	Qmin (m3/h)	Qmax (m3/h)
300x150	3x1,5	0,0056	50	250
450x150	4,5x1,5	0,0084	76	370
600x150	6x1,5	0,0112	101	495
750x150	7,5x1,5	0,014	126	590
900x150	9x1,5	0,0168	151	680
1050x150	10,5x1,5	0,0196	176	770
1200x150	12x1,5	0,0224	202	860
300x300	3x3	0,0112	101	435
450x300	4,5x3	0,0168	151	650
600x300	6x3	0,0224	202	870
750x300	7,5x3	0,028	252	1105
900x300	9x3	0,0336	302	1340
1050x300	10,5x3	0,0392	353	1575
1200x300	12x3	0,0448	403	1810

FREE VELOCITY, PRESSURE LOSS AND SOUND POWER LEVEL,
THROW



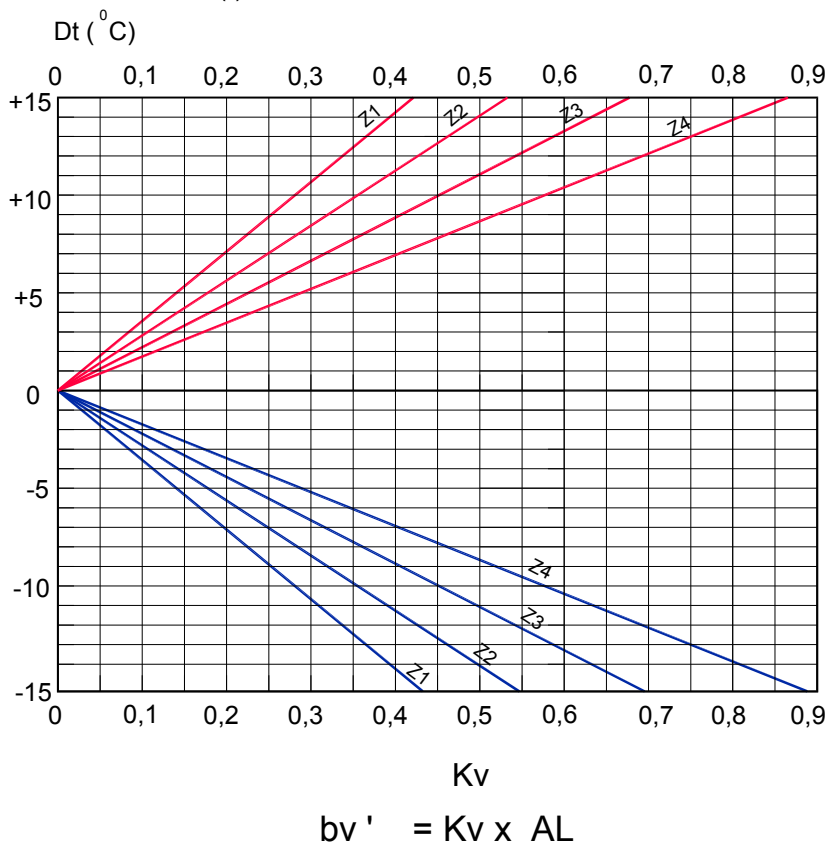
KOO SERIES



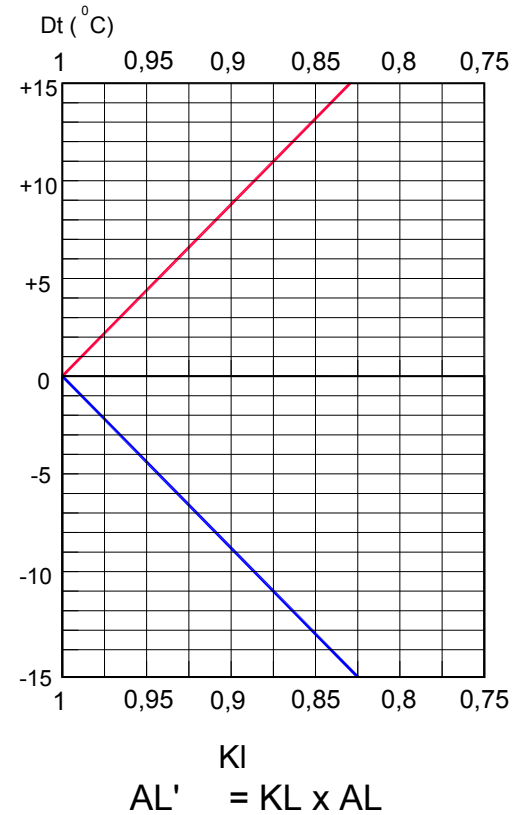
Z1	Z2	Z3	Z4
200x100	500x100	800x100	700x200
300x100	600x100	900x100	800x200
400x100	700x100	1000x100	900x200
200x200	300x200	400x200	1000x200
300x150	450x150	500x200	1050x150
	600x150	600x200	1200x150
	300x300	750x150	600x300
		900x150	750x300
		450x300	900x300
			1050x300
			1200x300

CORRECTION FACTOR FOR
VERTICAL DIFFUSION (bv)
FOR DT (-).

CORRECTION FACTOR FOR
THROW (L0.2) DT (-).

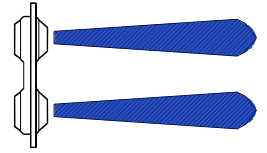


Kv = Correction factor for the vertical diffusion.



KI = Correction factor for the throw.

KOO SERIES



CORRECTION FACTOR FOR VERTICAL THROW (ALv) DT

